

Figure 1

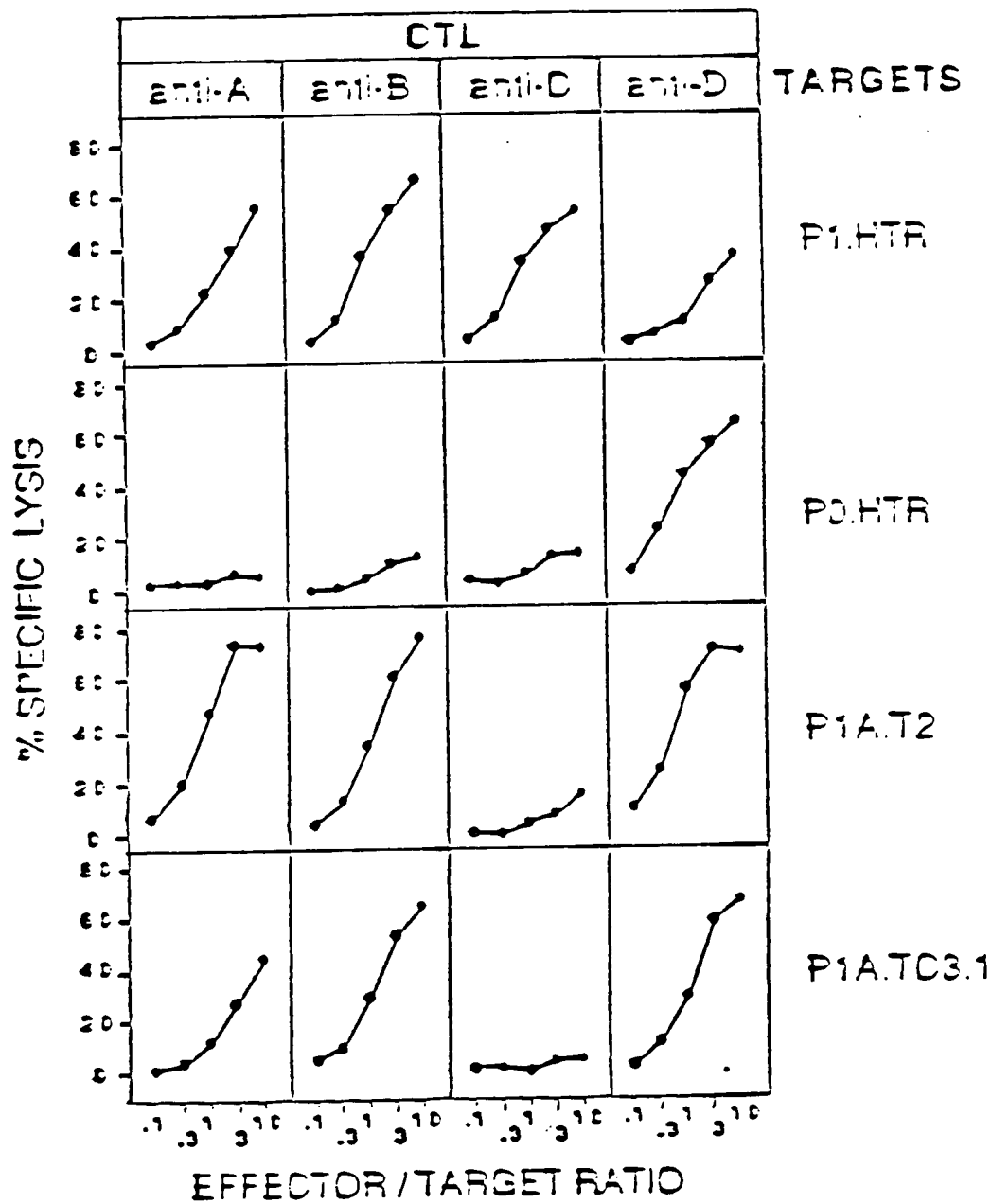
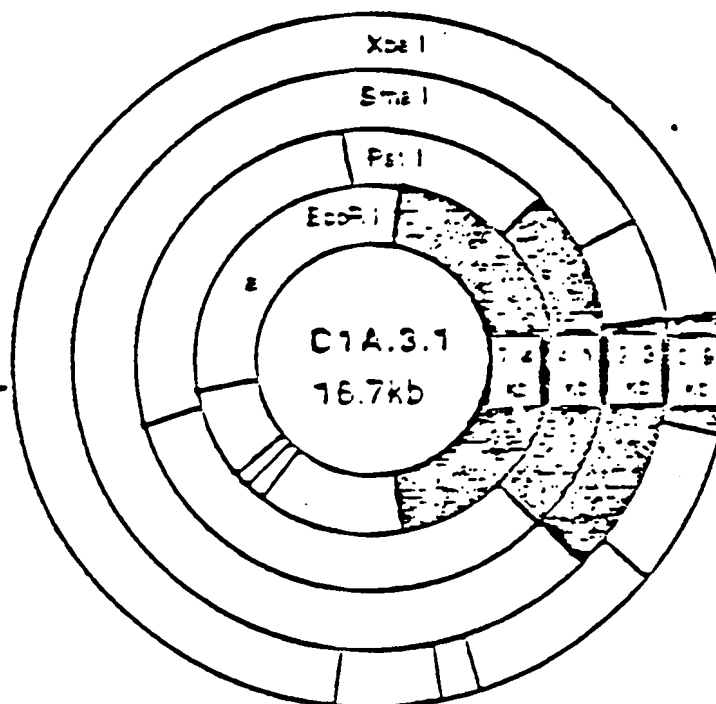


Figure 2



### Transfection of restriction fragments

No. of clones expressing PE15A  
/ no. of HmE<sup>+</sup> clones

4.1 kb Pst I - Pst I	2/15
2.3 kb Sma I - Pst I	18/98
0.9 kb Sma I - Xba I	22/98

Figure 3

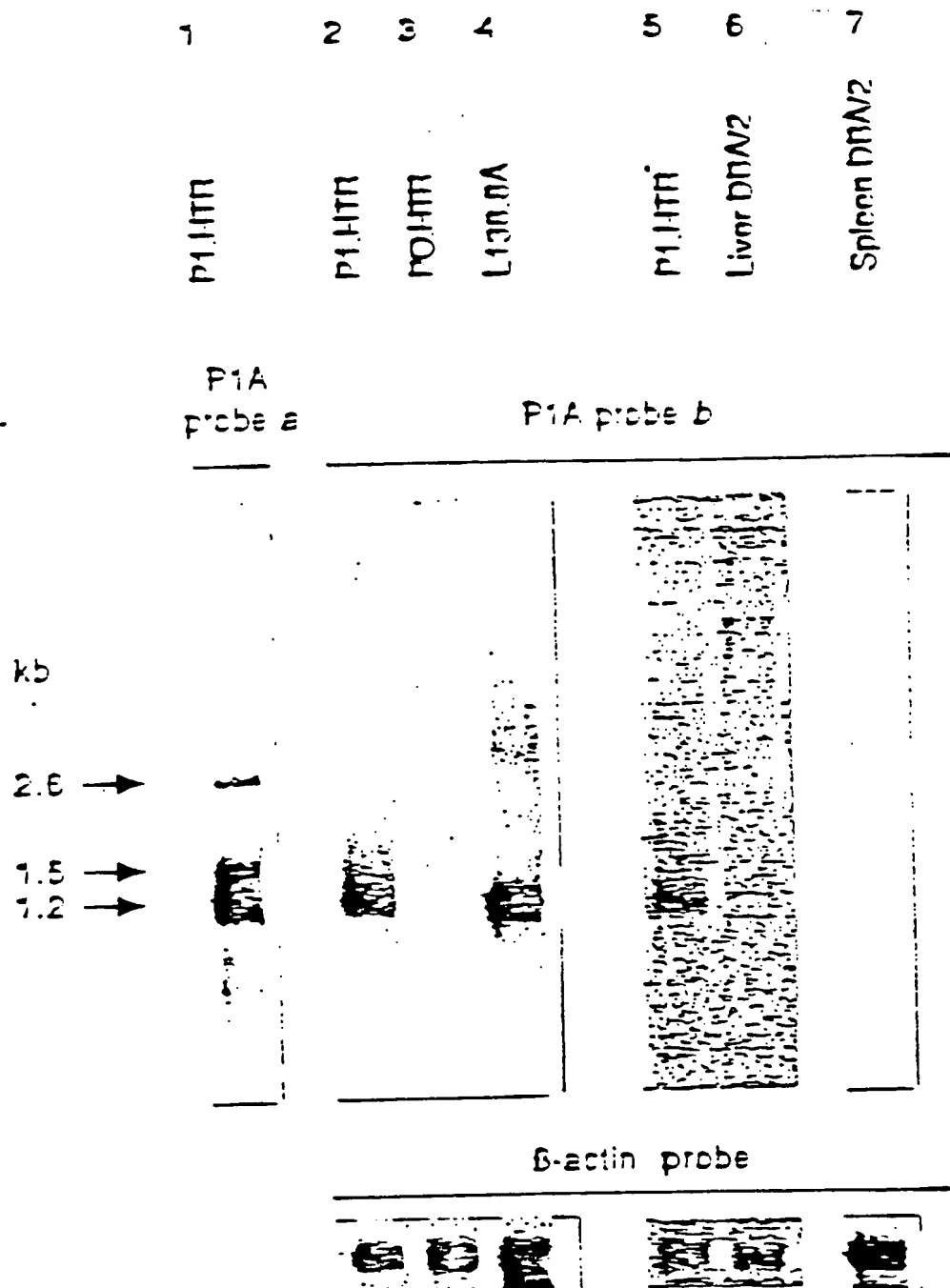


Figure 4

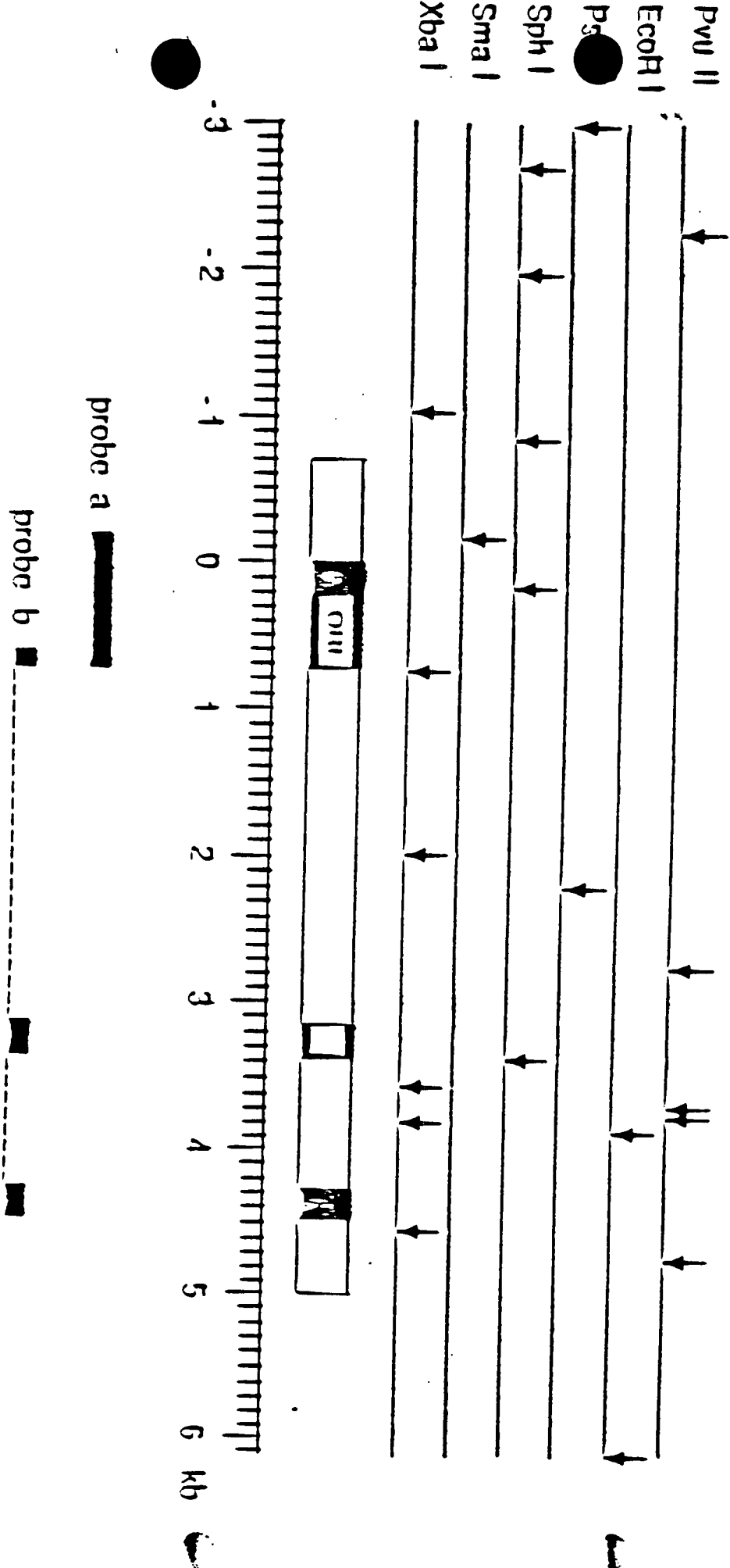


Figure 5

ACCACAGGAG AATGALLAGA ACCCGGGACT CCCAAGACG CTAGATGTGT GAAGATCCTG ATCACTCATT -120  
GGGTGTCTGA GTTCTGGGAT ATTCAATCCCT CAGCCAATGA GCTTACTGTT CTCGTGGGGG GTTTGTGAGC -50  
CTTGGGTAGG AAGTTTTGCA AGTTCCGGCT ACAGCTCTAG CTTGTGAATT TGTACCCCTT CACGTAAAA 19  
AGTAGCCAG AGTTTACTAC ACCCTCCCTC CCCCCCTCCA CCTCGTGCTG TGCTGAGTTI AGAAGTCTTC 89  
CTTATAGAAG TCTTCCGTAT AGAATCTTC CGGAGGAAGG AGGGAGGACC CCCCCCTTT GCTCTCCAG 159  
CATGCATTGT GTCACGGCA TTGCACTGAG CTGGTCGAAG AASTAAGCCG CTAGCTTGGG ACTCTACTCT 229  
TATCTTAACT TAGCTCGGCT TCCTGCTGGT ACCCTTTGTG CC 271

FIGURE 6a

ATG TCT GAT AAC AAG AAA CCA GAC AAA GCC CAC AGT GGC TCA GGT GGT GAC GGT GAT GGG 59  
 Met Ser Asp Asn Lys Lys Pro Asp Lys Ala His Ser Gly Ser Gly Gly Asp Gly Asp Gly  
 AAT AGG TGC AAT TTA TTG CAC CGG TAC TCC CTG GAA GAA ATT CTG CCT TAT CTA GGG TGG 118  
 Asn Arg Cys Asn Leu Leu His Arg Tyr Ser Leu Glu Glu Ile Leu Pro Tyr Leu Gly Trp  
 CTG GTC TTC GCT GTT GTC ACA ACA AGT TTT CTG GCG CTC CAG ATG TTC ATA GAC GCC CTT 177  
 Leu Val Phe Ala Val Val Thr Thr Ser Phe Leu Ala Leu Gln Met Phe Ile Asp Ala Leu  
 TAT GAG GAG CAG TAT GAA AGG GAT GTG GCC TGG ATA GCC AGG CAA AGC AAG CGC ATG TCC 236  
 Tyr Glu Glu Gln Tyr Glu Arg Asp Val Ala Trp Ile Ala Arg Gln Ser Lys Arg Met Ser  
 TCT GTC GAT GAG GAT GAA GAC GAT GAG GAT GAT GAG GAT GAC TAC TAC GAC GAC GAG GAC 295  
 Ser Val Asp Glu Asp Glu Asp Asp Glu Asp Asp Glu Asp Asp Tyr Tyr Asp Asp Glu Asp  
 GAC GAC GAC GAT GCC TTC TAT GAT GAT GAG GAT GAT GAG GAA GAA TTT GAG AAC CTG 354  
 Asp Asp Asp Asp Ala Phe Tyr Asp Asp Glu Asp Asp Glu Glu Glu Glu Leu Glu Asn Leu  
 ATG GAT GAT GAA TCA GAA GAT GAG GCC GAA GAA GAG ATG AGC GTG GAA ATG GGT GCC GGA 413  
 Met Asp Asp Glu Ser Glu Asp Glu Ala Glu Glu Glu Met Ser Val Glu Met Gly Ala Gly  
 GCT GAG GAA ATG GGT GCT GGC GCT AAC TGT GCC TGT GTT CCT GGC CAT CAT TTA AGG AAG 472  
 Ala Glu Glu Met Gly Ala Gly Ala Asn Cys Ala Cys Val Pro Gly His His Leu Arg Lys  
 AAT GAA GTG AAG TGT AGG ATG ATT TAT TTC TTC CAC GAC CCT AAT TTC CTG GTG TCT ATA 531  
 Asn Glu Val Lys Cys Arg Met Ile Tyr Phe Phe His Asp Pro Asn Phe Leu Val Ser Ile  
 CCA GTG AAC CCT AAG GAA CAA ATG GAG TGT AGG TGT GAA AAT GCT GAT GAA GAG GTT GCA 590  
 Pro Val Asn Pro Lys Glu Gln Met Glu Cys Arg Cys Glu Asn Ala Asp Glu Glu Val Ala  
 ATG GAA GAG GAA GAA GAA GAA GAG GAG GAG GAG GAG GAA GAG GAA ATG GGA AAC CCG GAT 649  
 Met Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Met Gly Asn Pro Asp  
 GGC TTC TCA CCT TAG  
 Gly Phe Ser Pro Amb

FIGURE 6b

GCATGCACTT GCAAGGCCA GAAGAAAGAA ATGACACGCG GAGAAAGTGG TTGTTTTTTT 60  
TTCCCTTCA TTAATTTTCT AGTTTTTAGT AATCCAGAAA ATTGATTTT GTTCTAAAGT 120  
TCATTATGCA AAGATGTCAC CAACAGACTT CTGACTGCAT GGTGAACTTT CATATGATAC 180  
ATAGGATTAC ACTTGTACCT GTTAAAAATA AAAGTTTGAC TTGCATAC 228

FIGURE 6c



cDNA Sequence of gene P2A  
 Content of A5011 2110 : cDNA (cf: Figure 6, parts a, b & c)

```

ACGACAGGAG AATGAAAAAG ACCCGGGAGT CCGAAAGATG CTAGATGTGT
GAAGATCCCG ATGATCCAGT GGTGTGTCTA GTTGTTCGAT ATTGATCCCG
CAGCCATGTA GGTCACTGTT CTGCTGGGGG GTTGTTCGAT GTTGGGTAGG
AAGTTTTGCA AGTTCGGGCT ACAGGTCTAG GTTGTTCGAT TGTACCGTTT
CACTTAJAAA AGTAGTCCAG AGTTTACTAG ACCGTCCGTC CCGGCTCCCA
CGTGGTGGTG TGTCTACTTT AGAAGTCTTC GTTATAGAGT TGTTCGGTAT
ACAACTCTTC CCGAGGAGAG AGGAGGAGAG CCGCGCGGCT GTTGTTCGAG
CATGCAATTT GTCAAGGCCA TTGACTGAG GTTGTTCGAG AAGTAAGGCG
CTAGCTTGGG ACTCTACTCT CATCTTAAGT TAGGTGGGCT TCGGTGGTGT
AAGCTTTGTG CC
ATG TGT GAT AAC AAG AAA CCA GAT AAA GGT CAG AGT GGG TCA
GGT GGT GAC GGT GAT GGG AAT AGG TGC AAT TCA TTG CAG CCG
CAC TGC CTG CAA GAA ATT CTG CCG TAT CTA GGG TGG CTG CTC
TTC GGT GTT GTC ACA ACA AAT TTT CTG GCG CTC CAG ATG TTC
ATA CAG GCG CTT TAT GAG GAG CAG TAT GAA AGG GAT GTG GCG
TGG ATA GGT AGG CAA AGC AAG CCG ATG TCC TCT CTC GAT CAG
GAT GAA CAG GAT GAC GAT GAT GAG GAT GAC TAC TAC GAC GAC
GAG GAC GAC GAC GAC GAT GCG TTC TAT GAT GAT GAG GAT GAT
GAG GAA GAA GAA TTG GAG AAC CTG ATG GAT GAT GAA TCA GAA
GAT GAG GGT GAA GAA GAG ATG AAT GTG GAA ATG GGT CCG CGA
GGT CAG GAA ATG GGT GGT GCG GGT AAC TGT GCG TGT GTT CCG
GGC CAT CAT TTA AGG AAG AAT GAA CTC AAG TGT AGG ATG AAT
TAT TTC TTC CAG CAG CCG AAT TTC CTG CTC TCT ATA CCA CTC
AAC CCG AAG GAA CAA ATG GAG TGT AGG CCG GAA AAT GGT GAT
GAA GAG GTT CCA ATG GAA GAG CAA GAA GAA GAA GAG GAG GAG
GAG GAG GAA GAG GAA ATG GAA AAC CCG GAT GCG TTC TCA CCG
TAG
GCATCCAGCT CCAAGGCGCA GAAGAAAGAA ATGACACCG GAAGAACTGG
TTGTTCTCTT TCGGCTTCTA TTAATTTCT AGTTTTTAT AATCCAGAAA
ATTGATTTT GTTCTAAGT TCATTATGAA AAGATGTCAG CAACAGACTT
CTGACTGGAT GGTAACTTT CATATGATAC ATACCATTAAC ACTTGTACCT
CTTAAAAATA AAGTTTTGAC TTGATAC

```

Figure 6d

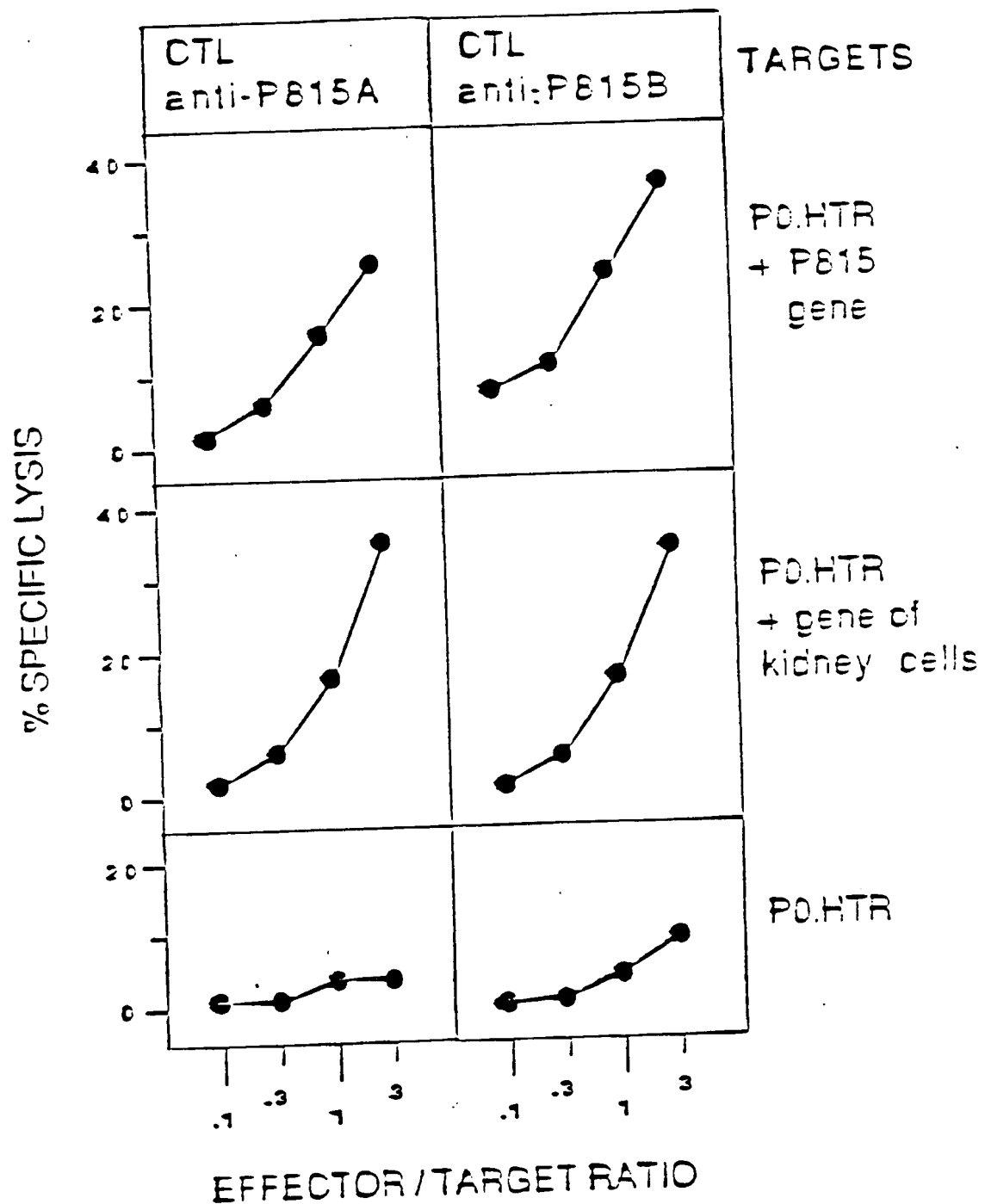


Figure 7

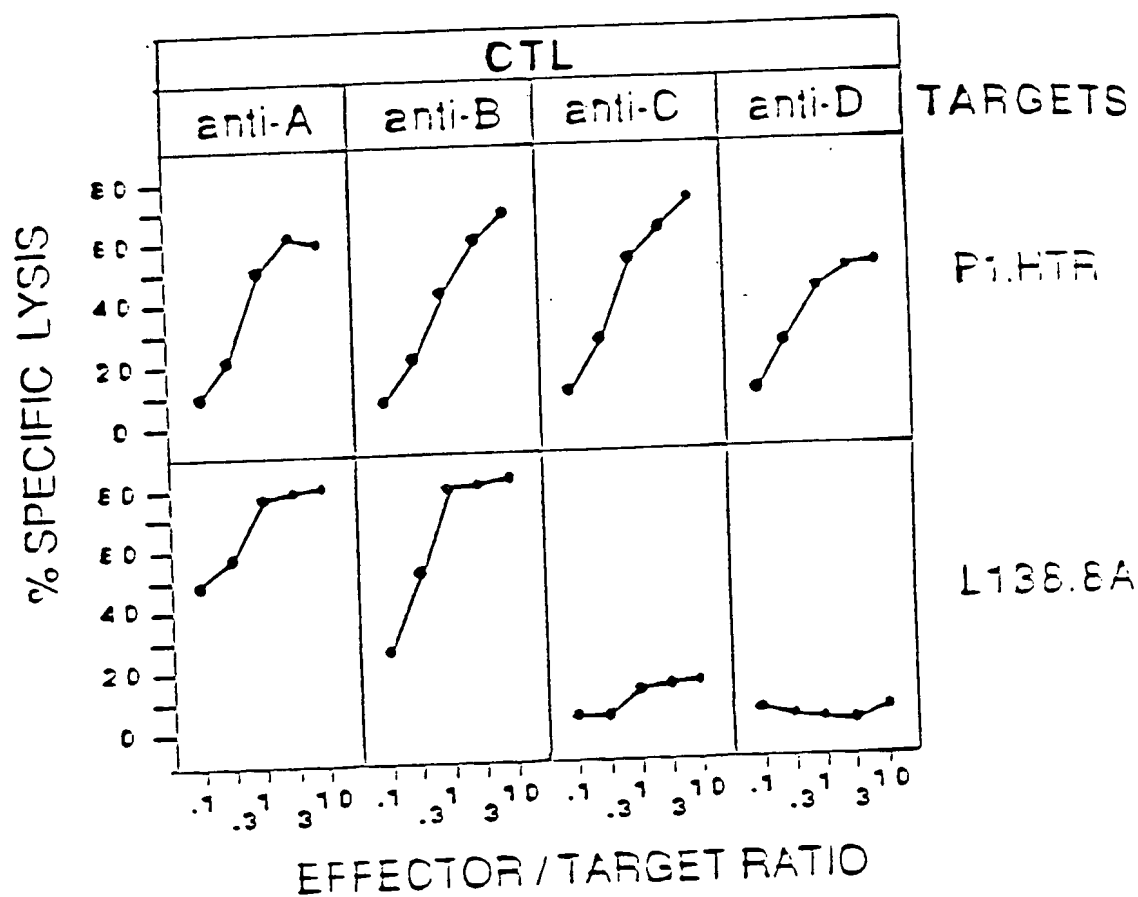


Figure 8



Figure 9 (ctd)

**Leu-Pro-Tyr-Leu-Gly-Trp-Leu**

**Figure 10**

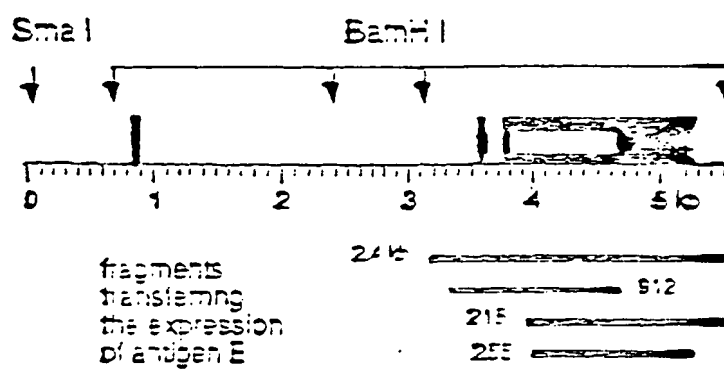


Figure 11

[illegible]

Figure 12



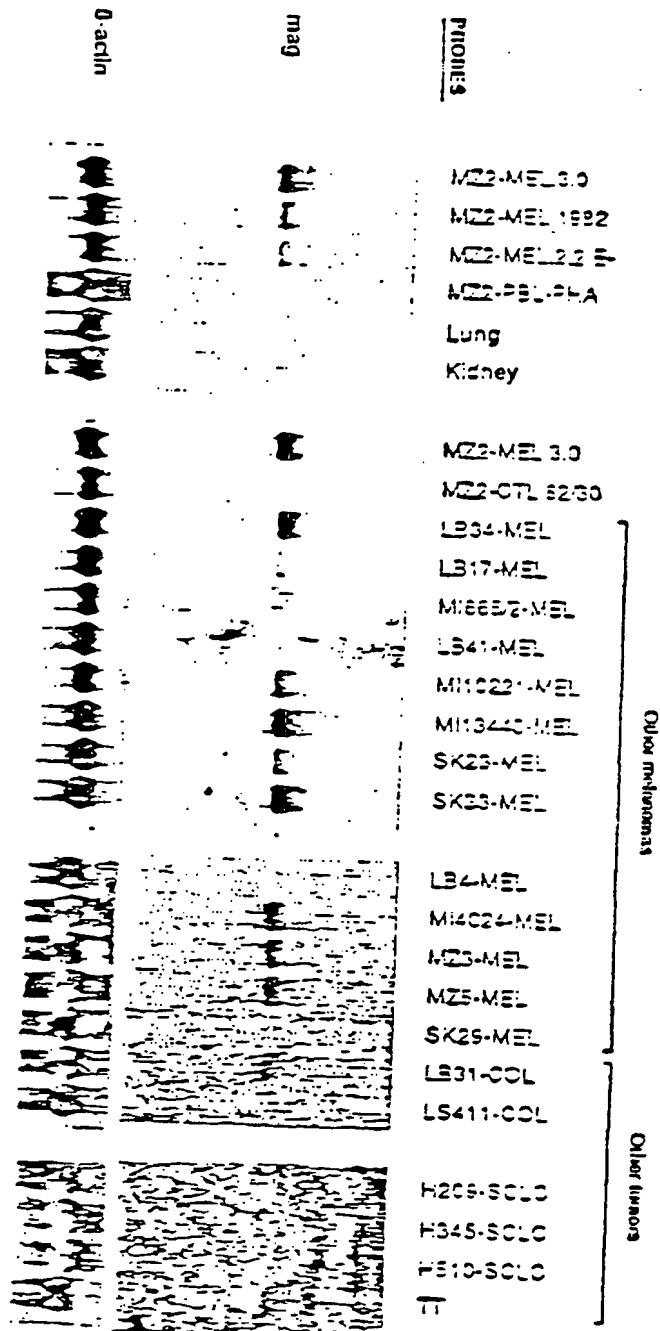


Figure 13



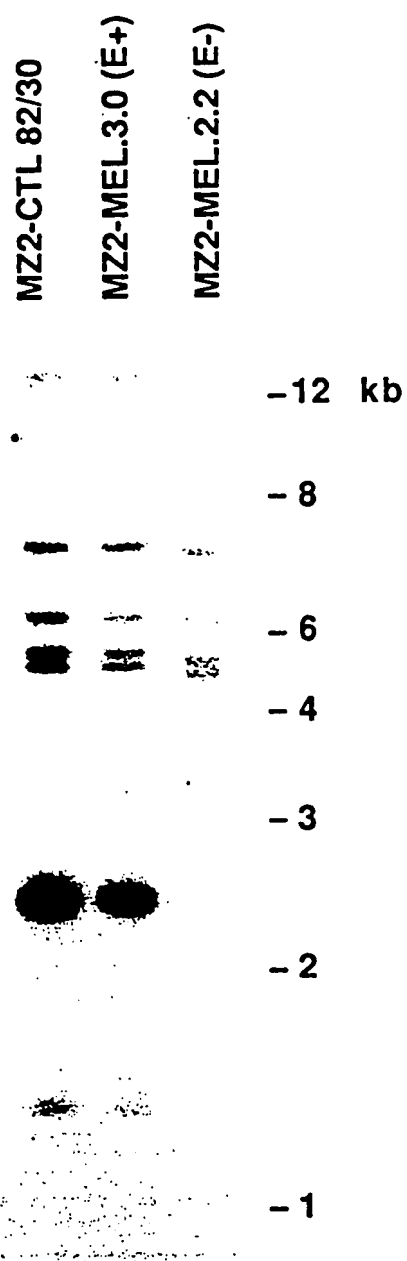


Figure 15



CCCGGGGCAC CACTGGGATC CCTCCCCCTA CCACCCSCAA TCCTCTCTTT  
 TACGCCACCC ATCCAAACAT CTTCACGCTC ACCCCAGCC CAAGCCAGGC  
 AGAATCCGGT TCCACCCCTG CTCTCAACCC AGGGAAECC AGGTGCCAG  
 ATGTACGCC ACTGACTGA GCATTAGTGG TTAGAGAGAA GCGAGGTATT  
 CGGTCTGAGG GCGGGCTTGA GATCGGTGA GGAAGCCGG CCCAGCTCTG  
 TAAGGAGGCA AGGTGACATG CTGAGGGAGG ACTGAGGACC CACTTACCCC  
 AGATAGAGGA CCCCAATAA TCCTTCATG CCAGTCTGG ACCATCTGGT  
 GGTGGACTTC TCAGGCTGGG CCACCCCCAG CCCCCTTGT GCTTAAACCA  
 CTGGGGACTC GAAGTCAGAG CTCCGTGTGA TCAGGGAAG GCTGCTTAGG  
 AGAGGGGACG GTCCAGGCTC TGCCAGACAT CATGCTCAGG ATTCTCAGG  
 AGGGCTGAGG GTCCCTAAGA CCCCCTCCG GTGATCCAC CCCCCTCCA  
 ATGCTCACTC CCGTACCCA ACCCCCTCTT CATTTCTATT CCAACCCCA  
 CCCCACATCC CCCCACCCAT CCTCAACCC TGATGCCCAT CCGCCCAACC  
 ATTCCACCTT CACCCCCACC CCCCACCCCA CCCCCTCTCC CACCCCAACC  
 CAGGCAAGAT CCGCTTCCG CAGGAAACA TCCGGGTGCG CCGATGTGAC  
 GGCCTGACT TCGGCAATGT GGGGAGAGA GAAGCGAGGT TTCCATTCTG  
 AGGCAAGGCG TAGAGTTCG CCGAAGGAAC CTGACCCAGG CTCTGTGAGG  
 AGGCAAGGTA AGAGGCTGAG GGAAGACTGA GGACCCCGCC ACTCCAAATA  
 GAGAGCCCCA AATATTCAG CCGCCCTCTT GCTGCCAGCG CTGGCCCAAC  
 CCGGGGAAGA CCGTTCAGCC TGGGCTGCCC CCAGACCCCT GCTCCAAAG  
 CCTTGAGAGA CACCAGGTTT TTCTCCCAA GCTCTGGAAT CAGAGGTTGC  
 TGTGACCAGG GCAGGACTGC TTAGGAGAGG GCAGGACACA GCTCTGCCA  
 GGCATCAGA TCAGTACCCA AGAGGGAGGG CTGTGGGCGC CCAAGACTGC  
 ACTCCAAATC CCACTCCAC CCAATTGCA TTCCCATTC CCAACCAACC  
 CCAATCTCT CAGGTACACC TCCACCCCA TCCTTACTCC TACTCCGTCA  
 CCGACCCACC ACCCTCCAGC CCCAGCACA GCCCCAACCC TCTGCCACC  
 TCACCCCTAC TGCCCCCAAC CCCCCTCTA TCTCTCTCAT GTGCCCACT  
 CCAATCTCT CCCCCTCTT GGCAGAAATC GGTCTGCCCC TCGTCTAAC  
 CCAAGGAAGC CCGGTAGGC CCGATGTGA ACCACTGACT TGAACTCTAC  
 AGATCTGAGA GAAGCCAGGT TCATTAAAT GCTCTGAGG GCGGCTTGA  
 ATCCACTGAG GGGATGTT TTAGGCTCTG TGAGGAGGCA AGGTGAGATG  
 CTGAGGGAGG ACTGAGGAGG CACACACCCC AGGTAGATGG CCCCCAAATG  
 ATCCAGTACC ACCCTGCTG CAGCCCTGG ACCACCCGCG CAGGACAGAT  
 GTCTAGCTG GACCACTCC CGTCCCTGC CACTGCCACT TAACCCACAG  
 GGCATCTCT AGTCATAGCT TATGTGACG GGGCAGGGT GGTCAAGAGA  
 GGCAGGGCCC AGGCATCAAG GTCCAGATC CCCCCGCAAT TAGGCTCAGG  
 ACCCTGGGAG GGAATGAGG GTTCCCCACC CACACCTGTC TCCTCATCTC  
 CACCCGCCACC CCACTCACAT TCCCATACCT ACCCTCTACC CCAACCTCA  
 TCTTGTCAGA ATCCCTGCTG TCAACCCACG GAAGCCACCG GAATGGCGGG  
 CAGGCACTCG GATCTTGAC TCCCATCCA GGTCTGATG GAGGGAAGGG  
 GCTTGAACAG GGCCTCAGGG GAGCAAGGG AGGGCCCTAC TGCGAGATGA  
 GGSAGGCTC AGAGGACCCA GCACCTAGG ACACCCGACC CCGTCTGAG  
 ACTGAGGCTG CCACTTCTGG CCTCAAGAT CAGAACGATG GGGACTCAGA  
 TTGCATGGG GTGGGACCCA GGCCTGCAAG GCTTACGCG AGGAAGAGGA  
 GGSAGGACTC AGGGACCTT GGAATCCAGA TCAGTGTGGA CCGCGGCCCT  
 GAGAGGTCCA GGCACCTG GGCATATG GGCATATTE CCGCATCTT  
 TGAGGTGACA GACACAGCT GTGGCTGAG AAGTGGGGCC TCAGGTCAAC  
 AGAGGTAGGA GTTCCAGGAT CCAATAGGCC CAAGATGTGC CCGCTTCAATG  
 AGGACTGGGG ATATCCCGG CTCAGAAAGA AGGGACTCCA CACAGTCTGG  
 CTGTCCCTT TATGAGCTC TAGGGGAGC AGATCAGGGA TGCGGTATG  
 TTCCATTCTC ACTGTACCA CAGGCAGGA GTTGGGGGCG CCGCAGGAG  
 ATGGGCTCT GGGGTAAAG GGGGATGCT ACTCATGTC GGGAAATGGG  
 GGTGAGGAA GCACAGGCG TGGCAGGAAT AAGATGAGI GAGACAGACA  
 AGGCTATGG AATCCACACC CCAGAACCA AGGGGTACG CCGGACACC  
 TCACCCAGGA TGTGGCTTCT TTTTCACTCC TGTTCAGGA TGTGGGACG  
 GTGAGGACT CATCTCAGA GGTGACTCA GGTCAAGCTA GGCACCCCA  
 TCTGCTCTAA AGACAGAGCG GTCCAGGAT CTCCATGCG TCGGGTGA  
 GACATGAGG GAGGACTGAG GGTACCCAG GACCAGACA CTGAGGAGA  
 CTGCACAGAA ATCAGCCCTG CCGCTGCTGT CACCCAGAG AGCATGGGT  
 GGGCCGTCTG CCGAGGCTCT TCCGTATCC TGGGATCAT GATGTAGGG  
 ACCGGGAGCG CTGTGTCGA GAAGGCTGCG CTCAGGTCAG TAGAGGGAGC  
 GTCCAGGCC CTGCCAGGAG TCAAGGTGAG GACCAAGCG GCACTCACCC  
 CAGGACACAT TAATCCAAAT GAATTTGAT ATCTCTTGT GCGCTTCCC  
 AAGGACCTAG GCACGTGTGG CAGATGTTT GTCCCTTCT GTCTTCCAT  
 TCTTATCAT GATGTGAAC TCTGATTTG GATTCTCAE ACCAGCAAA  
 GGGCAGGATC CAGGCCCTGC CAGGAAAAAT ATAGGGGCC TCGGTAGAA  
 CAGAGGGGT CATCTACTGC ATGAGAGTGG GATGTCACA GATCCAGCC  
 CACCCCTCTG GTAGCACTGA GAAGCCAGGG CTGTGCTTGC GGTCTGACC  
 CTGAGGGCC GTGATTCCT CTTCCTGGA CTCCAGGAAC CAGGAGTGA  
 GGCCTTGGT TGAACAGTA TCTCAGGTC ACAGAGCASA GATGCACAG  
 GGTCTGCCAG CAGTGAATGT TTGCCCTGAA TGCACACCA GGGCCCAAC  
 TGCCACAGGA CACATAGGAC TCCACAGAT CTGGCTCAC CTCCCTACTG  
 TCAGTCTGT AGATCGACC TCTGCTGCG GGTGTATCC TGAATACCT  
 CTCATCTCT CTTTCAAGTT TTCAGGGAC AGGCCAACCC AGAGSACAG  
 ATCTCTTGA GGCACAGAG GAGCACCAG GAGAAGATCT GTAAGTAGGC  
 CTTTGTAGA GTTCCAAAG TCAATCTC AGCTGAGGCC TCTCACACAC  
 TCCCTCTCT CCGAGGCTG TGGGCTTCA TTGCCAGCT CCGCCCAAC  
 CTCTGCTG CTGCCCTGAG GAGATCATC  
 ATG TCT CTG GAG CAG AGG AGT CTG CAC TGC AAG CTT GAG GAA

Figure 17a

GCC CTT GAG GCC CAA CAA GAG GCC CTG GGC CTG GTG TGT GTG  
CAG GCT GCC ACC TCC TCC TCC TCT CCT CTG GTC CTG GGC ACC  
CTG GAG GAG GTG CCC ACC GCT GGG TCA ACA GAT CCT CCC CAG  
AGT CCI CAG GGA GCC TCC GCC TTT CCC ACT ACC ATC AAC TTC  
ACI CGA CAG AGG CAA CCC AGT GAG GGT TCC AGC AGC CGT GAA  
GAG GAG GGG CCA AGC ACC TCT TGT ATC CTG GAG TCC TTG TTC  
CGA GCA GTA ATC ACT AAG AAG GTG GCT GAT TTG GTT GGT TTT  
CTG CTC CTC AAA TAT CGA GCC AGG GAG CCA GTC ACA AAG GCA  
GAA ATG CTG GAG AGT GTC ATC AAA AAT TAC AAG CAC TGT TTT  
CCI GAG ATC TTC GGC AAA GCC TCT GAG TCC TTG CAG CTG GTC  
TTT GGC ATT GAC GTG AAG GAA GCA GAC CCC ACC GGC CAG TCC  
TAT GTC CTT GTC ACC TGC CTA GGT CTC TCC TAT GAT GGC CTG  
CTG GGT GAT AAT CAG ATC ATG CCC AAG ACA GGC TTC CTG ATA  
ATT GTC CTG GTC ATG ATT GCA ATG GAG GGC GGC CAT GCT CCT  
GAG GAG GAA ATC TGG GAG GAG CTG AGT GTG ATG GAG GTG TAT  
GAT GGG AGG GAG CAC AGT GCC TAT GGG GAG CCC AGG AAG CTG  
CTC ACC CAA GAT TTG GTG CAG GAA AAG TAC CTG GAG TAC GGC  
AGG TGC CGG ACA GTG ATC CCG CAC GCT ATG AGT TCC TGT GGC  
GTC CAA GGC CCC TCG CTG AAA CCA GCT ATG TGA  
AAGTCCTTG AGTATGTAT CAAGGTGAGT GCAAGAGTTC  
GCTTTTCTT CCCATCCCTG CAGCAGCAG CTTTACAGGA GGAGGAGAG  
GGAGTCTGAG CATGAGTTGC AGCCAAAGGCC AGTGGGAGG GAGTGGGCC  
AGTGCACCTT CCAGGCCCCG GTCCAGCAGC TTCCCTGCCC TCCTGTGACA  
TGAGGCCCAT TCTTCACTCT GAAGAGAGCG GTCACTGTC TCAGTAGTAG  
GTTCTGTTC TATTGGGTGA CTGGGAGATT TATCTTTGTI CTCITTTGGA  
ATTGTICAAA TGTCTTTT TAAAGGATCG TTGAATGAAC TTCAGCAICC  
AAGTTTAIGA ATGACAGCAG TCACACAGTT CAGTGTATAT AGTTTAAGGG  
TAAGAGTCTT GIGTTTTATT CAGATTGGGA AATCCATTCT ATTTGTGAA  
TGGGATAAT AACAGCAGTG GAATAAGTAC TTAGAAATGT GAAAAATGAG  
CAGTAAATA GATGAGATAA AGAATTAAG AATTAAGAG ATAOTCAATT  
CTTCCCTTAT ACCTCAGTCT ATCTGTAAA ATTTTAAAG ATATATGCAT  
ACCTGATTT CCTGGCTTC TTTGAGAAAG TAAGAGAAAT TAAATCTGAA  
TAAAGLATIC TCCGCTTCA CTGGCTCTT TCTTCTCCAT GCACTGAGCA  
TCTGCTTTT GGAAGGCCCT GGCTTAGTAG TGGAGATGCT AAGGTAAGCC  
AGACTCATAC CCATCCATAG GGTCTGAGAG TCTAGGAGCT GCAGTCACGT  
AATCGAGGTG GCAAGATGTC CTCIAAGAT GAAGGGAAA GTGAGAGAGG  
GGTACGGGTG TGGGGCTCCG GGTGAGAGTG GTGGAGTGTC AATGCCCTGA  
GCTGGGCTT TTTGGGCTT GGGAACTGC AGTTCCCTCT GGGGGAGCTG  
ATTGTAATGA TCTTGGGTGATCC

Figure 17b

Gène **MAGE-**

```

CCCATCCAGA TCCCCATCCG GGCAGAAATCC GGTTCACCCG TTGCCGTGAA
CCCAGGGGAG TCACGGGGCCG GGATGTGACG CCACGTGACTT GCAUATGGGA
GCTCAGAGGA CAGCGAGATT CTCGCCCTGA GCAACGGCCT GACGCGGGGG
GAGGGAAGCA GGGCGAGGCT CCGTGAGGAG GCAAGGTAAG ACGCCGAGGG
AGGACTGAGG CGGGCCTCAC CCCAGACAGA GGGCCCCCAA TTAATCCAGC
GCTGCCTCTG CTGCGGGGCC TGGACCAACC TGCAGGGGAA GACTTCTCAG
GCTCAGTCCG CACCACCTCA CCCCGCCACC CCCCGCCGCT TTAACCCGAG
GGAACTCTGG CGTAAGAGCT TTGTGTGACC AGGCCAGGGC TGGTTAGGAG
TGGTCAGGGC CCAGACTCAG CCAGGAATCA AGGTCAAGAC CCCAAGAGGG
GACTGAGGGC AACCACCCCC CTACCCTCAC TACCAATCCC ATCCCCCAAC
ACCAACCCCA CCCCCATCCC TCAAACACCA ACCCCACCCC CAAACCCCAT
TCCCATCTCC TCCCCACCCA CCATCCTGGC AGAATCCGGC TTTGCCCTTG
CAATCAACCC ACGGAAGCTC CGGGAATGGC GGCCAAGCAC GCGGATCCTG
ACGTTACAT GTACGGCTAA GGGAGGGAAG GGGTTGGGTC TCGTGAGTAT
GGCCTTTGGG ATGCAGAGGA AGGCCCCAGG CCTCCTGSAH GACAGTGGAG
TCCTTAGGGG ACCCAGGATG CCAGGACAGG GGGCCCACTG TACCCCTGTC
TCAAACCTAG CCACCTTTTC ATTACAGCCGA GGGAACTCTA GGGATGCAGA
CCCCTTTCAG GGGGTGGGG CCCAGCCTGC GAGGAGTCAA GGGGAGGAAG
AAGAGGGGAG ACTGAGGGA COTGGAGTC CAGATCAGTG GCAACCTTGG
GCTGGGGGAT CTGGGGCACA GTGGCCGAAT GTGCCCGTG CTCATTGCAC
CTTCAGGGTG ACAGAGACTT GAGGGCTGTG GTCTGAGGGC TGGGACTTCA
GGTCAGCAGA GGGAGGAATC CCAGGATCTG CCGGACCCAA GGTGTGCCCC
CTTCATGAGG ACTCCCCATA CCCCGGGGCC AGAAGAAGG GATGCCACAG
AGTCTGGAAG TAAATGTTT TTAGCTCTGG GGGAACTCTA TCAGGGATGG
CCCTAAGTGA CAACTTCATT TGTACCACAG GCAGGAGGTT GGGGAACCTT
CAGGGAGATA AGGTGTGGT GTAAAGAGGA GCTGTCTGCT CATTTGAGGG
GGTCCCCCT TGAGAAAGGG CAGTCCCTGG CAGGASTAAA GATGAGTAAC
CCACAGGAGG CCATCATTAAC GTTCACCCTA GAACCAAAAG GGTGAGCCCT
GGACAACGCA CGTGGGGTAA CAGGATGTGG CCCCTCCTCA CTGTGCTTTC
CAGATCTCAG GGACTGTATG ACCTTGTTT CAGAAGGTGA CTCAGTCAAC
ACAGGGGGCC CTTGTGTCGA CAGATGCAGT GGTCTAGGA TCCTCCAAAGC
ATCCAGGTGG AGAGCCTGAG GTAGGATGGA GGGTACCCCT GGGCCAGAAAT
GCAGCAAGGG GGGCCCATAG AATCTGCCC TGCCCTGCG GTTACTTCAG
AGACCCCTGG CAGGGCTGTC AGGTGAAGTC CCTCCATTAT CTGGGATCTT
TGATGTCAAG GAAGGGGAGG CTTTGGTCTG AAGGGGCTGG AGTCAGGTCA
GTAGAGGGAG GGTCTCAGGC CTTGCCAGGA GTGGACGTGA GGACCAAGGG
GACTCTGTC CAGGACACC TGGACTCCAA TGAATTGAC ATCTCTGGTT
GTCTTCCGG GAGGACCTGG TCACGTATGG CCAGATGTGG GTCCCTCTA
TCTCTTCTG TACCATATCA GGGATGTGAG TTCTTGACAT CAGAGATTCT
CAACCCAGCA AAGGGGTGGG ATTAGGCCCT ACAAGSAGAA AGGTGAGGGC
CCTGAGTGAG CACAGAGGGG ACCCTCCACC CAAGTAGAGT GGGGACCTCA
CGAGGTCTGG CCAACCCCTG TGAGACTCT GGAATCCGT GGTGTGCTT
GCAGTCTGCA CACTGAAGGC CCGTGCAATC CTCTCCAGG AATCAGGAGC
TCCAGGAACC AGGCACTGAG GCTTGGTCT GAGTCAGTGC CTCAGGTGAC
AGAGCAGAGG GGACCGAGAC AGTGCCACAA CTGAAGGTTT GCCTGGAATG
CACACCAAGG GCGCCACCCG CCCAGAACAA ATGGGACTCC AGAGGGCCTG
GCTCACCCCT CCTATTCTC AGTCTGTCAG CTTGAGCATG TGCTGGCCGG
CTGTACCTG AGGTGCCCTC CCACTTCTC CTTCAGGTTT TGAGGGGGAC
AGGCTGATTA GTAGGACCCG AGGCACTGGA GGAGCATGTA AAGAGAAAGT
CTGTAAATTA GCTTTGTCGA GAGCCTCCAA GGTTCAGTTC AGTTCTCACC
TAAGGCTCTA CACAGCTCC TTTCTCCCC AGGCTGTGG GTCTTCATTG
CCCAGCTCT CCCCSCACTC CTGCTGCTG CCTGACCAG AGTCATC
ATG CCT CTT GAG CAG AGG AGT CAG CAC TGC AAG CCT GAA GAA
GGC CTT GAG GCC CGA GSA GAG GCC CTG GGC CTG GTG SGT GCG
CAG SCT CCT GCT ACT GAG GAG CAG CAG ACC GCT TCT TCC TCT
TCT ACT CTA GTG GAA GTT ACC CTG GGG GAG GTG CCT GCT GCC
GAC TCA CCG AGT CCT CCC CAC AGT CCT CAG GSA GCC TCC AGC
TTC TCG ACT ACC ATC AAC TAC ACT CTT TGG AGA CAA TCC GAT
GAG GGC TCC AGC AAC CAA GAA GAG GAG GGG CCA AGA ATG TTT
CCC GAC CTG GAG TCC GAG TTC CAA GCA GCA ATC AGT AGG AAG
ATG GTT GAG TTG GTT CAT TTT CTG CTC CTC AAG TAT CGA GCC
AGG GAG CCG GTC ACA AAG GCA GAA ATG CTG GAG AGT GTC CTC
AGA AAT TGC CAG GAC TTC TTT CCC GTG ATC TTC AGC AAA GCC
TCC GAG TAC TTG CAG CTG GTC TTT GGC ATC GAG GTG GTG GAA
GTG GTC CCC ATC AGC CAC TTG TAC ATC CTT GTC ACC TGC CTG
GGC CTC TCC TAC GAT GGC CTG CTG GGC GAC AAT CAG GTC ATG
CCC AAG ACA GGC CTC CTG ATA ATC GTC CTG GCC ATA ATC GCA
ATA GAG GGC GAC TGT GCC CCT GAG GAG AAA ATC TGG GAG GAG
CTG AGT ATG TTG GAG GTG TTT GAG GGG AGG GAG GAC AGT GTC

```

Figure 18a

## Gène MAGE

TTC GCA CAT CCC AGG AAG CTG CTC ATG CAA GAT CTG GTG CAG  
 GAA AAC TAC CTG GAG TAC CGG CAG GTG CCC GGC AGT GAT CCT  
 GCA TGC TAC GAG TTC CTG TGG GGT CCA AGG GGC CTC ATT GAA  
 ACC AGC TAT GTG AAA GTC CTG CAC CAT ACA CTA AAG ATC GGT  
 GGA GAA CCT CAC ATT CCC TAC CCA CCC CTG CAT GAA CGG GCT  
 TTG AGA GAG GGA GAA GAG TGA  
 GTCTCAGCAC ATGTTGCAGC CAGGGCCAGT GGCAGGCGGT CTGGGCCAGT  
 GCACCTTCCA GGGCCCCATC CATAGCTTC CACTGCCCTCG TGTGAATGA  
 GGCCCATTCG TGCCCTCTTG AAGAGASCAG TCAGCATTCG TAGCAGTGAG  
 TTTCTGTTCT GTTGSATGAC TTTGACATTT ATCTTCTCTT CCTGTTGGAA  
 TTGTTCAAAT GTTCCTTTTA ACAAATGGTT GGAAGAATTT CAGCATCCAA  
 GTTTATGAAT GACAGTAGTC ACACATAGTG CTGTTTATAT AGTTTAGGGG  
 TAAGAGTCCG GTTTTTTATT CAGATGGGA AATCCATTCG ATTTTGTGAG  
 TTGTCACATA ATAACAGCAG TGCAATATGT ATTTGCCAT ATTGGAACG  
 AATTAGCAAT AAAATACATG ATACAAGGAA CTCAAAACAT AGTTAATCT  
 TGCCTTATAC CTCAGTCTAT TATGTAAAAT TAAAAATATG TGTATGTTTT  
 TGCTTCTTTG AGAATGCAAA AGAAATTAAA TCTGAATAAA TTCTTCTGT  
 TCACTGGCTC ATTTCTTTAC CATTCACTCA GCATCTGCTC TGTGGAAGGC  
 CCTGGTAGTA GTGGG

Figure 18b



## Gène MAGE-21

GGATCCCCAT GGAATCCAGGA AGAATCCAGT TCCACCCCTG CTGTGAACCC  
AGGGAAATCA CGGGGCCGGA TGTGACGCCA CTGACTTGCG CGTTGGAGGT  
CAGAGAACAG CGAGATTCTC GCGCTGAGCA ACGGCTTGAC GTCGGCGGAG  
GGAAGCAGGC GCAGGCTCCG TGAGGAGGCA AGGTAAGATG CCGAGGGAGG  
ACTGAGGCGG GCCTCAGCCC AGACAGAGGG CCCCCAATAA TCCAGCGCTG  
CCTCTGCTGC CAGGCTTGA CCACCTTGA GGGGAAGACT TCTCAGGCTC  
AGTCGCCACC ACCTCAGCCC GCCACCCGCC GCGCTTTAA CCGCAGGGA  
CTCTGGTGTA AGAGCTTTGT GTGACCAGG CAGGGCTGGT TAGAAGTGCT  
CAGGGCCAG ACTCAGCCAG GAATCAAGGT CAGGACCCCA AGAGGGGACT  
GAGGGTAACC CCCCCGACC CCCACACCA TTCCCATCCC CCAACACCA  
CCCCACCCC ATCCCCAAC ACCAAACCA CCACCATCGC TCAAACATCA  
ACGGCACCCC CAAACCCCGA TTCCCATCCC CACCCATCCG GGCAGAATCG  
SAGCTTTGCC CCTGCAATCA ACCCAGGGA GCTCCGGA TGGCGGCCAA  
GCACGGCGAT CC

## cDNA MAGE-3 (Fvdb)

Lysm2  
 Lysm1  
 Lysm3  
 47  
 1014

GCGCCGAGGG AAGCCGGCCC AGGCTCGGTG AGGAGCCAGG GTTCTGAGGG  
 GACAGGCTGA CCGGAGGAG CAGAGCCGCC GCCACCAACA CTCAGGAGAA  
 AGATCTGCC GTGGGTCTCC ATTGCCAGG TCTTGGCCAG ACTGCCGCGT  
 GTTACCTTGA CCAGATCAT C  
 ATG CCG GTT GAG GAG AGC ACT GAG CAG TGC AAG CCG GAA GAA  
 GGC CTT GAG GCC CGA GAA GAG GCC CTG GGC CTG GTG GGT GCG  
 CAG CCG CCG CCG ACT GAG GAG CAG GAG GGT GCC TCC TCC TCT  
 TCT ACT GTA GTT GAA GTG AGC CTC GCG GAG GTG CCG CCG GCG  
 GAG TCA CCA GAT CCG CCG CAG AGT CCG CAG GGA GCG TCC AGC  
 CTC CCG ACT ACC ATG AAC TAC CCG CTC TCG AGC CAA TCC TAT  
 GAG GAG TCG AGC AAC GAA GAA GAG GAG GCG CCA AGC AGC TTC  
 CCG GAG CTG GAG TCC GAG TTC CAA GCA GCA CTC AGT AGG AAG  
 CTC CCG GAG TTC GTT CAT TTT CTC CTC CTC AAG TAT CCA GCC  
 AGG GAG CCG GTC ACA AAG GCA GAA ATG CTG GCG AGT GTC GTC  
 GGA AAT TGG CAG TAT TTC TTT CCG GTG ATC TTC AGC AAA GCT  
 TCG ACT TCG TCG CAG CTG GTC TTT GCG ATC GAG CAG ATC GAA  
 GTG GAG CCG ATC GCG CAG TTT TAC ATC TTT GCG ACC TCG CTG  
 GCG CTC TCG TAC GAT GCG CTC GGT GAG AAT CAG ATC ATG  
 CCG AAC CCA CCG CTC CTC ATA ATC CTC CTG GCG ATA ATC GCA  
 AGA GAG GCG GAG TGT GCG CCG GAG GAG AAA ATC TCG GAG GAG  
 CTC AGT GTG TTA GAG GTG TTT GAG GCG AGG GAA GAG AGT ATG  
 TTT GCG GAT CCG AAG AAC CTC CTC AGC CAA CAT TTC CTC CAG  
 GAA AAC TAC CTC GAG TAC CCG CAG GTC CCG GCG AGT GAT CCG  
 GCA TGT TAT GAA TTC CTG TCG GGT CCA AGG GCG CTC GTT GAA  
 AGC AGC TAT GTC AAA CTG CTC CAG CAT ATC GTA AAG ATC AGT  
 GGA GGA CCG CAG ATT TCC TAC CCA CCG CTC CAT GAG TCG GTT  
 TTG ACA GAG CCG GAA GAG TCA  
 GTCTGAGCAG GAGTTGAGC GAGGAGCAGT GCGAGCGCGT CTCGCCCACT  
 GCACCTTCCG GCGCGCCATC CTTAGTTTC CACTGCTTC TGTGAGGTGA  
 GCGCGATCTT TCACTCTTG AAGCGAGCAG TCACCATCT TACTAGTGG  
 TTGAGTTCT GTTGGATGAC TTGAGATTA TCTTTGTTT CCGTTGGAG  
 TTGTTCAAT GTTCTTTTA ACGGATGGT GAATGAGCGT CAGCATCCAG  
 CTTATCAAT GACATGATC ACACATAGTG CTGTTATAT GTTTAGGAC  
 TAAGAGTCTT GTTTTTACT CAAATTTGGA AATGAGTTC ATTTGTGAA  
 TTGTAGATA ATATAGCAG TGGTAAAGT ATTTGCTTAA AATTTGAGC  
 GAATTAGCAA TAACATAGAT CACATAGCTC AAGAAATCAA AATATAGTTC  
 AATTTGCTT TGTACCTCAA TCTATTCCT AATATAGC AATATAGCAA  
 ACCAGGATT CTTGACTTC TTG

Figure 20

## Gène MAGE-31

GGATCCTCCA CCCAGTAGA GTGGGGACCT CACAGAGCT GGGCAACCT  
 CCTGACATT CTGGGAATCC GTGGCTGCGT TTGCTGTCTG CACATTGGGG  
 GCGCGTGGAT TCCTCTCCCA GGAATCAGGA GCTCCAGGAA CAAGGCAATG  
 AGGACTTGST CTGAGGCAGT GTCTCAGGT CACAGAGTAG AGGGGGCTCA  
 GATAGTGCCA ACGGTGAAGG TTGCTTGG ATTCAAACCA AGGGCCCCAC  
 CTGCCCCAGA ACACATGGAC TCCAGAGCGC CTGSCCTCAC CCTCAATACT  
 TTCAGTCTTG CAGCCTCAGC ATGCGCTGGC CGGATGTACC CTGAGGTGGC  
 CTCTCACTTC CTCCTTCAGG TTCTGAGGGG ACAGGCTGAC CTGGAGGACC  
 AGAGGGCCCC GGAGGAGCAU TGAAGGAGAA GATCTGTAAG TAAGCCTTGG  
 TTAGAGCCIC CAAGGTTCCA TTCAGTACTC AGCTGAGGTC TCTCACATGC  
 TCCCTCTCTC CCCAGGCCAG TGGGTCTCCA TTGCCAGCT CCTGCCACA  
 CTCCCGCTG TTGCCCTGAC CAGAGTCATC  
 ATG CCT CTE GAG CAG AAG AGT CAG CAC TGC AAG CCT GAA GAA  
 GGC CTT GAG GCC CGA GGA GAG GCC CTG GGC CTG GTG GGT GCG  
 CAG GCT CCT GCT ACT GAG GAG CAG GAG GCT GCC TCC TCC TCT  
 TCT AGT GTA GTT GAA CTC ACC CTG GGG GAG GTG CCT GCT GCC  
 GAG TCA CCA GAT CCT CCC CAG AGT CCT CAG GGA GCC TCC AGC  
 CTC CCC ACT ACC ATG AAC TAC CCT CTC TGG AGC CAA TCC TAT  
 GAG GAC TCC AGC AAC CAA GAA GAG GAG GGG CCA AGC ACC TTC  
 CCT GAC CTG GAG TCT GAG TTC CAA GCA GCA CTC AGT AGG AAG  
 GTG GCC AAG TTG GTT CAT TTT CTG CTC

Figure 21

## cDNA MAGE-4

GGG CCA AGC ACC TCG CCT GAC GCA GAG TCC TTG TTC CGA GAA  
 GCA CTC AGT AAC AAG GTG GAT GAG TTG GCT CAT TTT CTG CTC  
 CGC AAG TAT CGA GCC AAG GAG CTG GTC ACH AAG GCA GAA ATG  
 CTG GAG AGA GTC ATC AAA AAT TAC AAG CGC TGC TTT CCT GTG  
 ATC TTC GGC AAA GCC TCC GAG TCC CTG AAG ATG ATC TTT GGC  
 ATT GAC GTG AAG GAA GTG GAC CCC GCC AGC AAC ACC TAC ACC  
 CTT GTC ACC TGC CTG GGC CTT TCC TAT GAT GGC CTG CTG GGT  
 AAT AAT CAG ATC TTT CCC AAG ACA GGC CTT CTG ATA ATC GTC  
 CTG GGC ACA ATT GCA ATG GAG GGC GAC AGC GCC TCT GAG GAG  
 GAA ATC TGG GAG GAG CTG GGT GTG ATG GGG GTG TAT GAT GGG  
 AGE GAG CAC ACT GTC TAT GGG GAG CCC AGG AAA CTG CTC ACC  
 CAA GAT TGG GTG CAG GAA AAC TAC CTG GAG TAC CGG CAG GTA  
 CCC GGC AGT AAT CCT GCG CGC TAT GAG TTC CTG TGG GGT CCA  
 AGG GCT CTG GCT GAA ACC AGC TAT GTG AAA GTC CTG GAG CAT  
 GTG GTC AGG GTC AAT GCA AGA GTT CCG ATT GCC TAC CCA TCC  
 CTG GGT GAA GCA GCT TTG TTA GAG GAG GAA GAG GCA GTC TGA  
 GCATGAGTTG CAGCCAGGGC TGTGGGGAAG GGGCAGGGCT GGGCCAGTGC  
 ATCTAACAGC CCTGTGCAGC AGCTTCCCTT GCCTCGTGTA ACATGAGGCC  
 CATCTTCAC TCTGTTTGAA GAAAATAGTC AGTGITCITA GTAGTGGGT  
 TCTATTTTGT TGGATGACTT GGAGATTAT CTCTGTTTCC TTTACAATTG  
 TTGAAATGTT CTTTTAATG GATGGTGGAA ITAACTTCAG CATCCAASTT  
 TATGAATGCT AGTAAAGCTA TATGCTGTT AATATAGTTT AGGAGTAAGA  
 GTCTGTGTTT TTATTCAGAT TGGGCCCTCC GTCTATTTT GTGAATTGG  
 GACATAATAA CAGCAGTCCA GTAAGTATTT AGAAGTGTGA ATTC

Figure 22

## Gène MAGE-5

GGATCCCCAG GAGGCCCTAG AGGAGCACCA AAGGAGAAGA TCTGTAAAGTA  
AGCCTTTGTT AGAGCCICCA AGGTCAGTT TTAGCTGAG GCTTCICACA  
TGCTCCCTCT CTCTCCAGGC CAGTGGGCTT CCATTGCCCA GCTCCTGCCC  
ACACTCCTGC CTGTTGCGGT GACCAGAGTC GTC  
ATG TCT CTT GAG CAG AAG AGT CAG CAC TGC AAG CCT GAG GAA  
GGC CTT GAC ACC CAA GAA GAG GCC CTG GGC TGG TGG GTG TGC  
AGG CTG CCA CTA CTG AGG AGC AGG AGG CTG TGT CCT CCT CCT  
CTC CTC TGG TCC AGG CAC CCT

## Gène MAGE-6

TAT TTC TTT CCT GIG ATC TTC AGC AAA GCT TCC GAT TCC TTG  
CAG CTG GTC TTT GGC ATC GAG CTG ATG GAA STG GAC CCC ATC  
GGC CAC GTG TAC ATC TTT GCC ACC TGC CTG GGC CTC TCC TAC  
GAT GGC CTG CEG GGT GAC AAT CAG ATC ATG CCC AGG ACA GGC  
TTC CTG ATA ATC ATC CTG GCC ATA ATC GCA ASA GAG GGC GAC  
TGT GCC CCT GAG GAG

ACA AGC ACT AGT TTC CTT GTG ATC TAT GGC AAA GCC TCA GAG  
TGC ATG CAG GTG ATG TTT GGC ATT GAC ATG AAG GAA GTG GAC  
CCC GCG GCC ACT CCT ACG TCT TGT ACC TGC TTG GGC CTC TCC  
TAC AAT GGC CTG CTG GGT GAT GAT CAG AGC ATG CCC GAG A